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# ***WATER SUPPLY OUTLOOK FOR OREGON***

Prepared by

**U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE**

Collaborating with

**OREGON STATE UNIVERSITY**

and

**STATE ENGINEER of OREGON**

Data included in this report were obtained by the agencies named above in cooperation with other Federal, State and private organizations.

AS OF  
**FEB. 1, 1972**

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters of key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO NUMBER ORC 221-3

## PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

## PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia





# **WATER SUPPLY OUTLOOK FOR OREGON**

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

*Issued*

FEBRUARY 8, 1972

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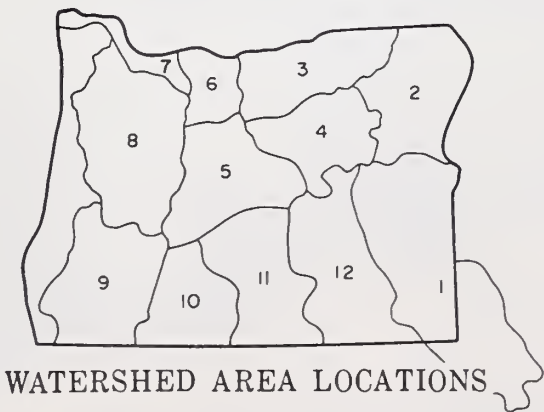
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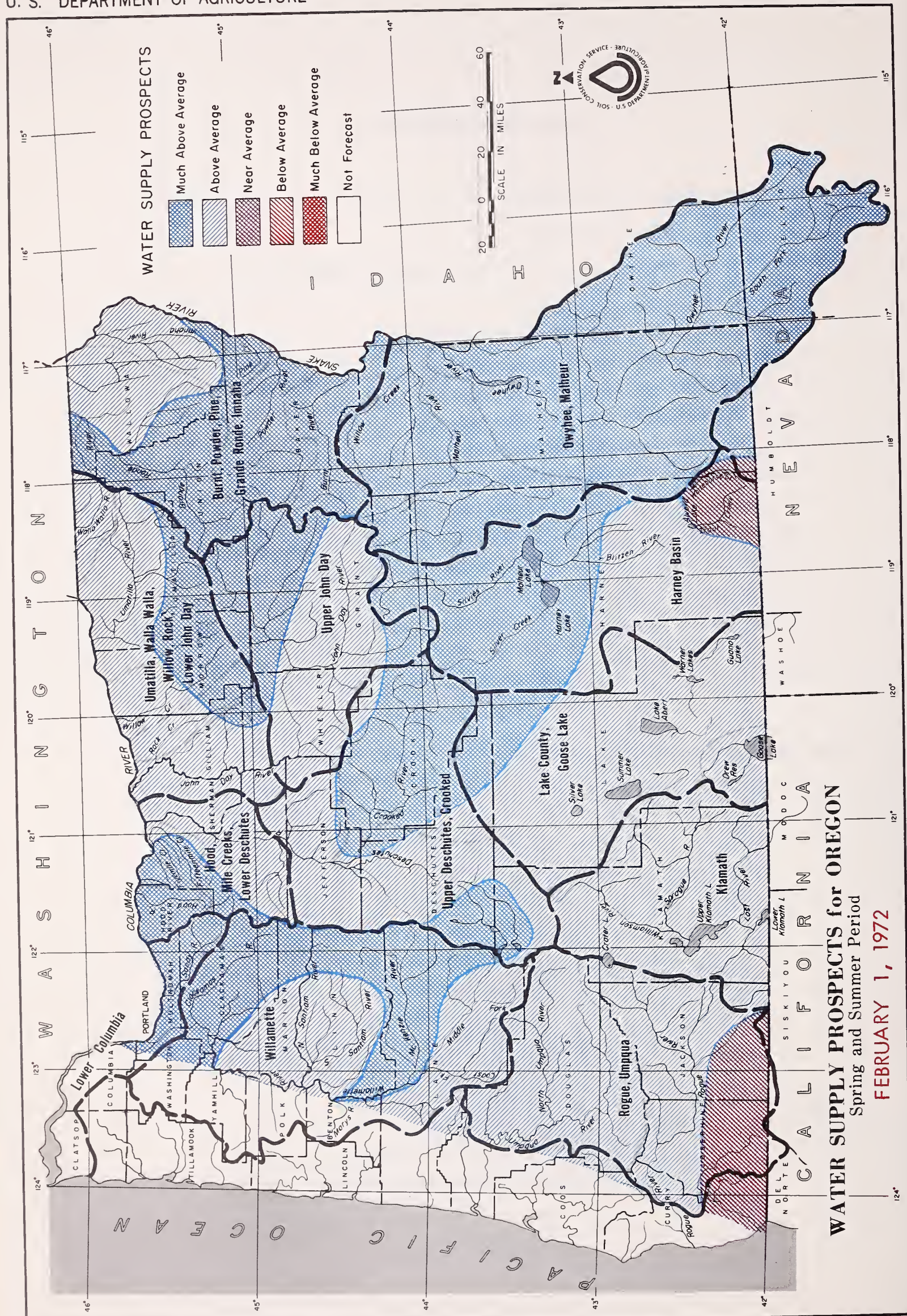


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# WATER SUPPLY OUTLOOK for OREGON

FEBRUARY 1, 1972

Oregon continues to have an excellent water supply outlook. The snowpack is above average to much above average, exceeding last year's heavy accumulations. Stored water supplies are excellent.

## SNOW COVER

The above average snow cover varies from 120% on the Illinois River drainage to 240% in the Cascades and Blue Mountains. Thirty-five snow courses set new all time February 1 record measurements. Many snow courses throughout the state exceed the April 1 average.

## PRECIPITATION

Precipitation during January was 75-84% of average in the Umatilla, Walla Walla, and John Day basins, 149% in the Willamette basin, 152% in the Harney Basin, and average to above average over the remainder of the state.

## SOIL MOISTURE

Soils are normal to wetter than normal for this time of the year and will absorb usual amounts of the spring snowmelt water.

## RESERVOIR STORAGE

Reservoir storage was above average over the state on February 1. Twenty-six reservoirs were storing 2,320,000 acre feet of water which is 135% of the average. Most reservoirs should fill during the season with some already having to spill.

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## STREAMFLOW

Streamflow varied around the state with near average in the Grande Ronde and John Day Drainages to above average and much above average in the rest of the state. Heavy rains during early and mid-January caused severe flooding in western Oregon. Some flooding occurred in the southeastern part of the state in early January. However, the above average snow-pack remained at all elevations.

Prospective April-September streamflow for some representative streams are as follows:

<u>STREAM</u>	<u>FORECAST</u> <u>As Percent of 1953-67 Average</u>
Owyhee net Inflow	233
Malheur near Drewsey	176
Deschutes near Benham Falls	116
Grande Ronde near La Grande	143
Willamette, Mid. Fk. nr. Oakridge	123
Upper Klamath Lake net Inflow	106
Rogue at Raygold	113
Silvies near Burns	165
John Day, Mid. Fk. near Ritter	129

This report contains data furnished by the Oregon State Engineer, U. S. Geological Survey, NOAA National Weather Service, and other cooperators.





# WATER SUPPLY OUTLOOK OWYHEE, MALHEUR WATERSHEDS OREGON

*as of*

FEBRUARY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ··· OREGON STATE ENGINEER

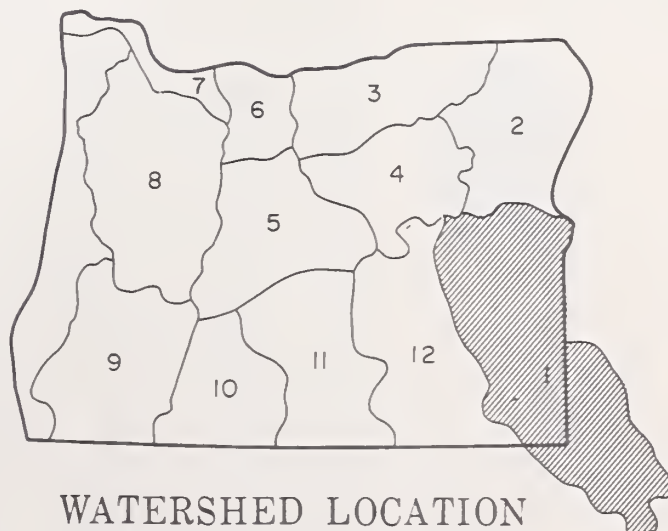
## GENERAL OUTLOOK

EXCELLENT WATER SUPPLIES ARE IN PROSPECT FOR MOST WATER USERS IN MALHEUR COUNTY. JANUARY PRECIPITATION WAS NEAR NORMAL WHILE PRECIPITATION FOR THE NOVEMBER-JANUARY PERIOD WAS 125 PERCENT OF NORMAL. THE SNOWPACK IS AVERAGE TO ABOVE AVERAGE AT LOWER ELEVATIONS AND RANGES FROM 165 PERCENT ON THE MALHEUR TO OVER 200 PERCENT OF AVERAGE AT THE MID AND HIGHER ELEVATIONS ON THE JORDAN CREEK AND OWYHEE DRAINAGES. THE SOIL MOISTURE CONTENT IS NEAR AVERAGE. RESERVOIRS ARE HOLDING MORE THAN AVERAGE AMOUNTS FOR FEBRUARY FIRST AND MOST SHOULD FILL. THE OWYHEE NET INFLOW WAS 155,800 ACRE FEET DURING JANUARY.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Boulder Creek	Excellent	Average
Bully Creek	Average	Fair
Cow Creek	Excellent	Average
Jordan Creek	Excellent	Excellent
Jordan Valley Irrig. Dist.	Excellent	Excellent
McDermitt Creek	Average	Fair
Oregon Canyon Creek	Average	Fair
Owyhee Project	Excellent	Excellent
Succor Creek	Excellent	Average
Tenmile Creek	Average	Fair
Vale-Oregon Irrig. Dist.	Excellent	Excellent
Warm Springs Irrig. Dist.	Excellent	Excellent
Willow Creek (Reservoired)	Excellent	Average



WATERSHED LOCATION



## STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
BASIN, STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>i</sup>
Bully Creek at Warmsprings	20	175	March-May	b	11.4
Jordan Creek above Lone Tree Creek	141	168	April-July	b	85 <sup>m</sup>
	141	168	April-Sept.	b	85 <sup>m</sup>
Malheur near Drewsey	178	160	Feb-July	b	111
	126	176	April-Sept.	b	72
Malheur, North Fork at Beulah <sup>d</sup>	101	133	Feb.-July	b	76
	82	136	April-Sept.	b	60
Owyhee Reservoir net Inflow <sup>k</sup>	900	205	Feb.-July	805	438
	700	233	April-Sept.	504	300

## FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Owyhee near Rome	1000 250	June 26 July 5	May 24 June 20

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>i</sup>
Antelope	70.0	9.8	- -	5.7
Beulah Res.*	60.0	31.9	33.8	23.3
Bully Creek	30.0	10.2	21.0	14.5
Owyhee	715.0	595.7	699.5	359.3
Warm Springs	191.0	121.9	136.1	74.6

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>i</sup>
Jordan Creek	1	98	110
Malheur River	2	72	82
Owyhee River	4	85	85

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Jordan Creek	4	150	240
Malheur River	5	105	165
Owyhee River	5	205	205

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (l) Ground measurement. (m) Average for 5 or more years in base period.



Area 2

# WATER SUPPLY OUTLOOK BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS OREGON

*as of*

FEBRUARY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

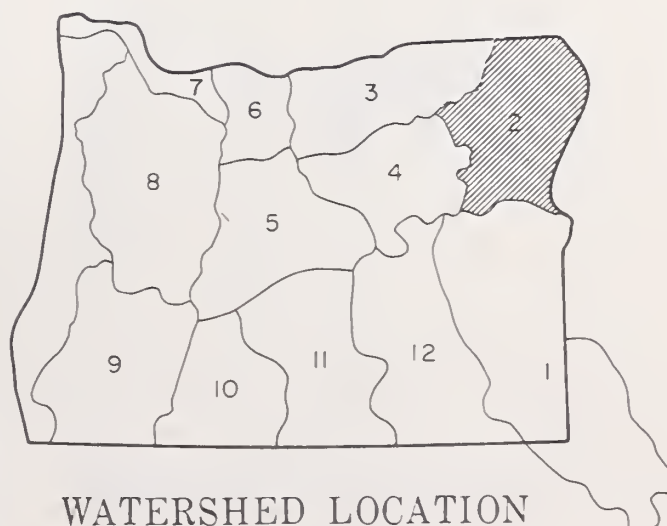
## GENERAL OUTLOOK

WATER USERS IN THIS AREA WILL HAVE EXCELLENT WATER SUPPLIES NEXT SPRING AND SUMMER. THE FEBRUARY 1 SNOWPACK RANGES FROM 171 PERCENT OF AVERAGE IN THE WALLOWA'S TO 246 PERCENT OF AVERAGE ON THE GRANDE RONDE DRAINAGE. THE BEAVER RESERVOIR, COUNTY LINE, SCHOOLMARM, AND MEACHAM SNOW COURSES SET ALL TIME FEBRUARY 1 RECORDS AND ALREADY EXCEED THE AVERAGE FOR APRIL FIRST. SOIL MOISTURE IS NEAR AVERAGE. BASIN PRECIPITATION WAS 120 PERCENT OF AVERAGE DURING JANUARY AND 122 PERCENT FOR THE NOVEMBER-JANUARY PERIOD. RESERVOIR STORAGE IS ABOVE AVERAGE FOR FEBRUARY FIRST. THE GRANDE RONDE AT LA GRANDE FLOWED NEAR NORMAL AMOUNTS DURING JANUARY.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Alder Slope	Excellent	Excellent
Baker Valley	Excellent	Excellent
Big Creek	Excellent	Excellent
Clover Cr. (nr. N. Powder)	Excellent	Excellent
Cove	Excellent	Excellent
Durkee	Excellent	Excellent
Eagle Valley	Excellent	Excellent
Elgin	Excellent	Excellent
Enterprise-Joseph	Excellent	Excellent
Hereford-Bridgeport	Excellent	Excellent
Imnaha River	Excellent	Excellent
LaGrande-Island City	Excellent	Excellent
Lostine-Wallowa	Excellent	Excellent
No. Powder River-Wolf Creek	Excellent	Excellent
Pine Valley	Excellent	Excellent
Powder River-Elk Creek	Excellent	Excellent
Summerville	Excellent	Excellent
Sumpter Valley	Excellent	Excellent
Union-Hot Lake	Excellent	Excellent
Unity	Excellent	Excellent



WATERSHED LOCATION

Report prepared by

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PORTLAND, OREGON 97205

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>i</sup>
Bear near Wallowa	82	125	April-Sept.	b	66
Burnt near Hereford <sup>d</sup>	73	152	Feb.-July	b	48
	60	171	April-Sept.	b	35
Catherine near Union	85	133	April-Sept.	b	64
Eagle Creek abv. Skull Creek	209	124	April-July	b	168 <sup>m</sup>
	227	125	April-Sept.	b	182 <sup>m</sup>
Grande Ronde at La Grande	295	140	March-Sept.	223	211
	251	143	April-Sept.	194	175
Hurricane near Joseph	51	109	April-Sept.	b	47
Imnaha at Imnaha	341	111	April-Sept.	b	306
Lostine near Lostine	138	110	April-Sept.	b	125
Powder near Sumpter	78	144	April-July	b	54
	79	142	April-Sept.	b	56
Wallowa, East Fork near Joseph <sup>d</sup>	14.7	110	Feb.-Sept.	b	13.4
	13.2	110	April-Sept.	b	12.0

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>i</sup>

Burnt, Powder	2	80	101
Grande Ronde, Catherine Cr., Imnaha River	2	93	110

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>i</sup>
Phillips Lake	73.5	50.8	59.7	- -
Thief Valley	17.4	17.4	17.4	- -
Unity	25.2	11.2	14.9	8.8
Wallowa Lake	37.5	20.6	19.6	21.6

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Burnt River	3	120	180
Grande Ronde River above La Grande	4	260	245
Powder River	5	105	175
Wallowa, Imnaha, Catherine Creek	6	110	155

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67, adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.





# WATER SUPPLY OUTLOOK UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS

OREGON

*as of*

FEBRUARY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

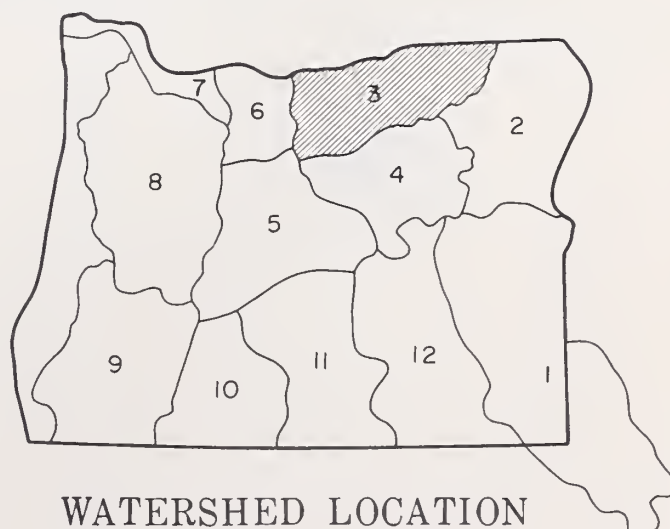
## GENERAL OUTLOOK

UMATILLA COUNTY WATERUSERS WILL HAVE EXCELLENT SUPPLIES NEXT SPRING AND SUMMER. THE MOUNTAIN SNOWPACK IS 2 1/2 TIMES THE AVERAGE FOR FEBRUARY FIRST. MANY SNOW COURSES ALREADY EXCEED THE APRIL FIRST AVERAGE. THE BATTLE MOUNTAIN SNOW COURSE SET A NEW 21 YEAR ALL TIME RECORD. SOIL MOISTURE IS NEAR AVERAGE. PRECIPITATION IN THE BASIN WAS 75 PERCENT OF AVERAGE DURING JANUARY AND 113 PERCENT FOR THE NOVEMBER THROUGH JANUARY PERIOD. MCKAY RESERVOIR IS STORING ABOUT 2 TIMES THE AVERAGE AMOUNT FOR FEBRUARY FIRST. THE UMATILLA AT PENDLETON FLOWED 45,300 ACRE FEET DURING JANUARY.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Walla Walla River, No. Fork	Excellent	Average
Walla Walla River, So. Fork	Excellent	Average
Walla Walla River, Main	Excellent	Average
Walla Walla River, Little	Excellent	Average
Couse Creek	Excellent	Average
Dry Creek	Excellent	Average
Pine Creek	Excellent	Average
Umatilla River, Main	Excellent	Average
Wildhorse Creek	Excellent	Average
Umatilla R. (Cold Springs Reservoir)	Excellent	Excellent
Umatilla R. (McKay Res.)	Excellent	Excellent
McKay Creek	Excellent	Excellent
Birch Creek	Excellent	Average
Butter Creek	Excellent	Average
Willow Creek	Excellent	Average
Rhea Creek	Excellent	Average
Rock Creek (John Day Tributary)	Excellent	Average



## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>i</sup>
Birch Creek at Rieth	45	153	Feb.-July	b	29
	30	164	April-Sept.	b	18.4
Butter Creek near Pine City	15.0	121	March-July	b	12.4
McKay near Pilot Rock	40	143	April-Sept.	b	28
Umatilla near Gibbon	134	135	March-Sept.	b	99
	107	134	April-Sept.	b	80
Umatilla at Pendleton	259	124	March-Sept.	191	208
Walla Walla, South Fork near Milton	87	111	March-Sept.	b	79
	74	111	April-Sept.	b	67

## FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Umatilla at Pendleton	550	June 22	May 23

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>†</sup>
Cold Springs	50.0	28.8	35.6	29.9
McKay	73.8	59.6	34.9	26.3

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>i</sup>
Umatilla, Walla Walla, McKay Creek	3	92	95

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
McKay Creek	3	270	245
Umatilla River	3	205	225
Walla Walla River	2	160	210

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



# WATER SUPPLY OUTLOOK UPPER JOHN DAY WATERSHEDS OREGON

*as of*

FEBRUARY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

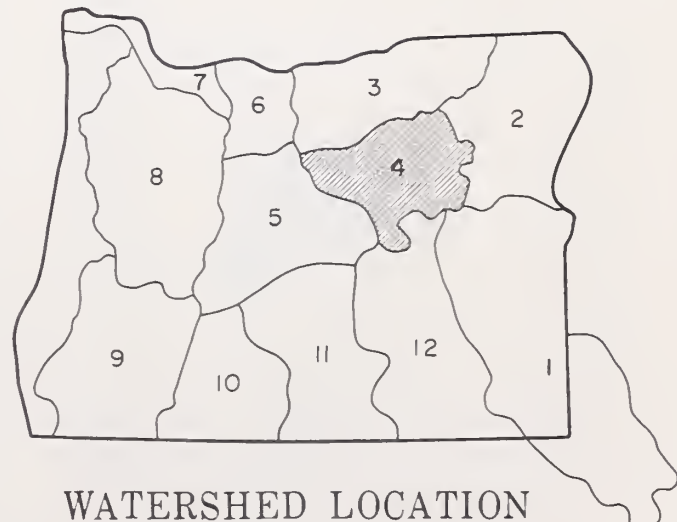
## GENERAL OUTLOOK

EXCELLENT WATER SUPPLIES ARE IN PROSPECT FOR WATER USERS IN THE UPPER JOHN DAY DRAINAGE. THE SNOWPACK IS 175 TO 198 PERCENT OF AVERAGE WITH MANY SNOW COURSES EXCEEDING THE AVERAGE FOR APRIL FIRST. SOIL MOISTURE CONTENT IS NEAR AVERAGE. JANUARY PRECIPITATION WAS 84 PERCENT OF AVERAGE AND 122 PERCENT FOR THE NOVEMBER THROUGH JANUARY PERIOD. THE JOHN DAY AT SERVICE CREEK FLOWED 128,900 ACRE FEET DURING JANUARY, WHICH IS 128 PERCENT OF AVERAGE.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Beech Creek	Excellent	Average
Beech Creek-Fox-Long Cr.	Excellent	Average
Bridge-Mountain Creeks	Average	Average
Camas Creek	Average	Average
Cherry Creek	Average	Average
Indian-Pine Creeks	Average	Average
John Day River, Main Fork	Excellent	Average
John Day River, Mid. Fork	Excellent	Average
John Day River, N. Fork	Excellent	Average
John Day River, S. Fork	Excellent	Average
Monument-Kimberly	Excellent	Average
Strawberry Creek	Excellent	Average





## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>i</sup>
Camas Creek near Ukiah	65	136	March-July	b	43
	54	139	April-Sept.	b	35
John Day at Prairie City	66	129	March-July	b	51
	60	130	April-Sept.	b	46
John Day, Middle Fork at Ritter	170	126	March-July	b	135
	150	129	April-Sept.	b	116
John Day, North Fork at Monument	935	137	March-July	b	682
	792	136	April-Sept.	b	589
Strawberry near Prairie City	9.4	119	March-July	b	7.9
	9.5	113	April-Sept.	b	8.4

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>i</sup>
John Day abv. Dayville	7	89	107
John Day, North Fork	2	89	105

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
John Day, North Fork	6	145	200
John Day abv. Dayville	5	125	175

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

# WATER SUPPLY OUTLOOK UPPER DESCHUTES, CROOKED WATERSHEDS OREGON

*as of*

FEBRUARY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

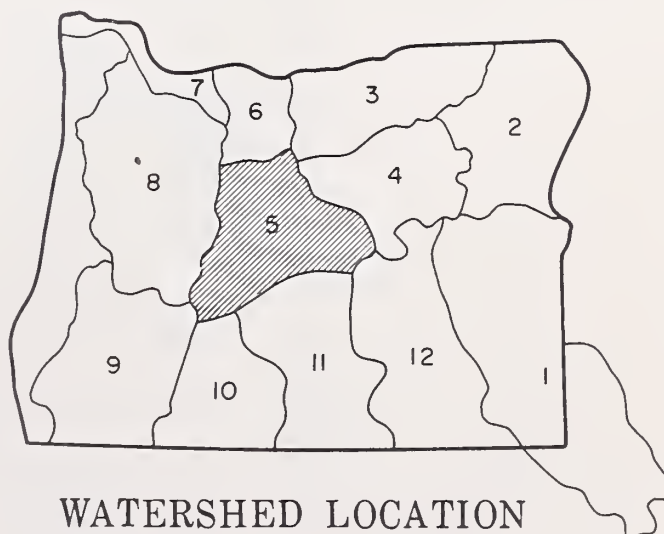
## GENERAL OUTLOOK

EXCELLENT WATER SUPPLIES ARE FORECAST FOR WATER USERS IN THE UPPER DESCHUTES, CROOKED RIVER WATERSHEDS DURING THE 1972 SEASON. THE MOUNTAIN SNOWPACK IS 160 TO 190 PERCENT OF AVERAGE WITH SOME SNOW COURSES EXCEEDING THE APRIL 1 AVERAGE. PRECIPITATION WAS 122 PERCENT OF AVERAGE DURING JANUARY AND 128 PERCENT OF AVERAGE DURING THE NOVEMBER-JANUARY PERIOD. SOILS WERE HOLDING NEAR AVERAGE AMOUNTS OF WATER ON FEBRUARY FIRST. THE FLOW OF THE DESCHUTES AT MOODY WAS NEAR AVERAGE DURING JANUARY. MOST RESERVOIRS WERE STORING NEAR AVERAGE AMOUNTS ON FEBRUARY 1.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Arnold Irrigation District	Excellent	Average
Bear Creek	Excellent	Average
Beaver Creek	Excellent	Average
Camp Creek	Excellent	Average
Central Ore. Irrig. Dist.	Excellent	Average
Crooked River	Excellent	Average
Deschutes River	Excellent	Average
Hay-Trout Creeks	Excellent	Average
Lone Pine Irrig. Dist.	Excellent	Average
Mill Creek	Excellent	Average
Norht Unit Irrig. Dist.	Excellent	Average
Ochoco Creek	Excellent	Average
Sisters Irrigation Dist.	Excellent	Average
Snow Creek Irrig. Dist.	Excellent	Average
Squaw Creek Irrig. Dist.	Excellent	Average
Swalley Ditch	Excellent	Average
Tumalo Project	Excellent	Excellent
Walker Basin Irrig. Dist.	Excellent	Excellent



WATERSHED LOCATION

Report prepared by

T.A. GEORGE AND H.M. VANCE

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

1218 S.W. WASHINGTON ST.  
PORTLAND, OREGON 97205

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average	PERIOD	Last Year
Beaver Creek near Paulina	66	143	Feb.-July	46
	33	163	April-Sept.	20
Crane Prairie Reservoir total Inflow	161	128	April-Sept.	126
Crescent at Crescent Lake <sup>d</sup>	35	135	March-July	26
	37	132	April-Sept.	28
Crooked near Post	234	136	Feb.-July	173
	155	153	April-Sept.	101
Deschutes at Benham Falls <sup>d</sup>	465	118	April-July	393
	690	116	April-Sept.	596
Deschutes below Snow Creek	89	113	Feb.-Sept.	79
	88	133	April-Sept.	66
Deschutes, Little near LaPine <sup>d</sup>	141	125	Feb.-July	113
	118	124	April-Sept.	95
Ochoco Reservoir net Inflow	50	132	Feb.-July	38
	34	147	April-Sept.	23
Odell near Crescent	39	130	April-Sept.	30
Squaw near Sisters	60	118	April-Sept.	51
Tumalo near Bend <sup>d</sup>	58	118	April-Sept.	49

## FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Crane Prairie net Inflow	To Be	Issued April 1	
Deschutes at Bend	To Be	Issued April 1	
Little Deschutes near La Pine	400	June 28	June 7
	200	Aug. 2	July 8

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>†</sup>
Crane Prairie	55.3	55.3	44.9	44.4
Crescent Lake	86.9	71.4	42.5	47.3
Ochoco	47.5	29.1	36.8	22.2
Prineville	153.0	92.1	108.8	100.7
Wickiup	200.0	190.7	127.5	160.8

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>i</sup>
Crooked R., Upper Deschutes River	3	88	100

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Crooked, Ochoco	3	165	180
Deschutes abv. Wickiup	3	135	190
Little Deschutes	4	115	160
Tumalo & Squaw Crs.	3	130	170

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.





# WATER SUPPLY OUTLOOK HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS

OREGON

*as of*

FEBRUARY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

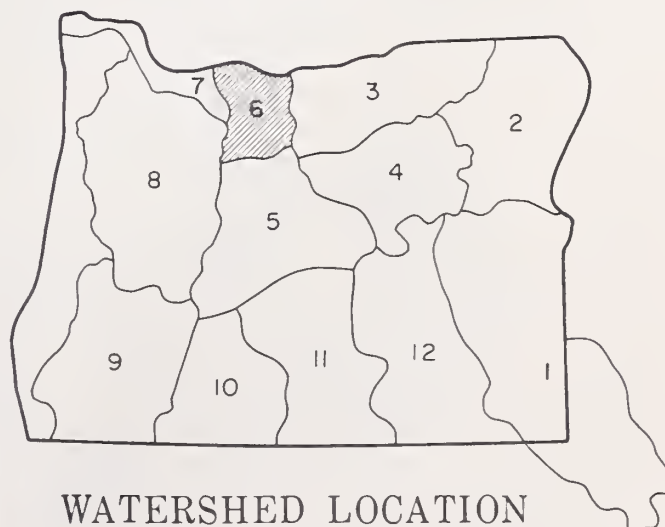
## GENERAL OUTLOOK

EXCELLENT WATER SUPPLIES ARE IN PROSPECT FOR THIS AREA DURING THE SPRING AND SUMMER OF 1972. THE MOUNTAIN SNOWPACK WAS 2 1/2 TIMES THE AVERAGE WITH A NEW FEBRUARY FIRST RECORD ESTABLISHED AT PHLOX POINT NEAR TIMBERLINE LODGE. PRECIPITATION DURING JANUARY WAS 133 PERCENT OF AVERAGE AND NEAR AVERAGE FOR THE NOVEMBER THRU JANUARY PERIOD. SOILS ON THE WATERSHED ARE HOLDING NEAR AVERAGE AMOUNTS OF WATER. WASCO RESERVOIR WAS HOLDING 3 TIMES THE AVERAGE AMOUNT FOR FEBRUARY FIRST.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Aldridge Ditch (Tony Creek)	Excellent	Excellent
Badger Creek	Excellent	Excellent
Dee Irrigation Dist.	Excellent	Excellent
East Fork Irrig. Dist.	Excellent	Excellent
Farmers Irrigation Dist.	Excellent	Excellent
Hood River Irrig. Dist.	Excellent	Excellent
Juniper Flat	Excellent	Excellent
Middle Fork Irrig. Dist.	Excellent	Excellent
Mile Creeks	Excellent	Average
Mill Creek	Excellent	Average
Mount Hood Irrig. Dist.	Excellent	Excellent
Rock-Gate-Threemile Crs.	Excellent	Excellent
Tygh Creek	Excellent	Excellent
White River	Excellent	Excellent



WATERSHED LOCATION

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>i</sup>
Hood River near Tucker Bridge	380	135	April-July	b	282
	438	130	April-Sept.	b	336
Hood, West Fork near Dee	186	133	April-July	b	140
	218	136	April-Sept.	b	161
White below Tygh Valley	207	162	April-July	b	128
	235	163	April-Sept.	b	144

## FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Clear Branch Inflow	*60	July 15-31	**39
*Average cfs forecast to flow for this two-week period. **Average cfs for period of record.			

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>†</sup>
Clear Lake (Wasco)	11.9	7.2*	4.1	2.6
*Reading 1/21/72.				

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>i</sup>
Hood River, Mile Creeks	1	100	--

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Hood River	5	140	225
Mile Creeks	-	--	--
White River	3	145	235

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



# WATER SUPPLY OUTLOOK LOWER COLUMBIA WATERSHEDS OREGON

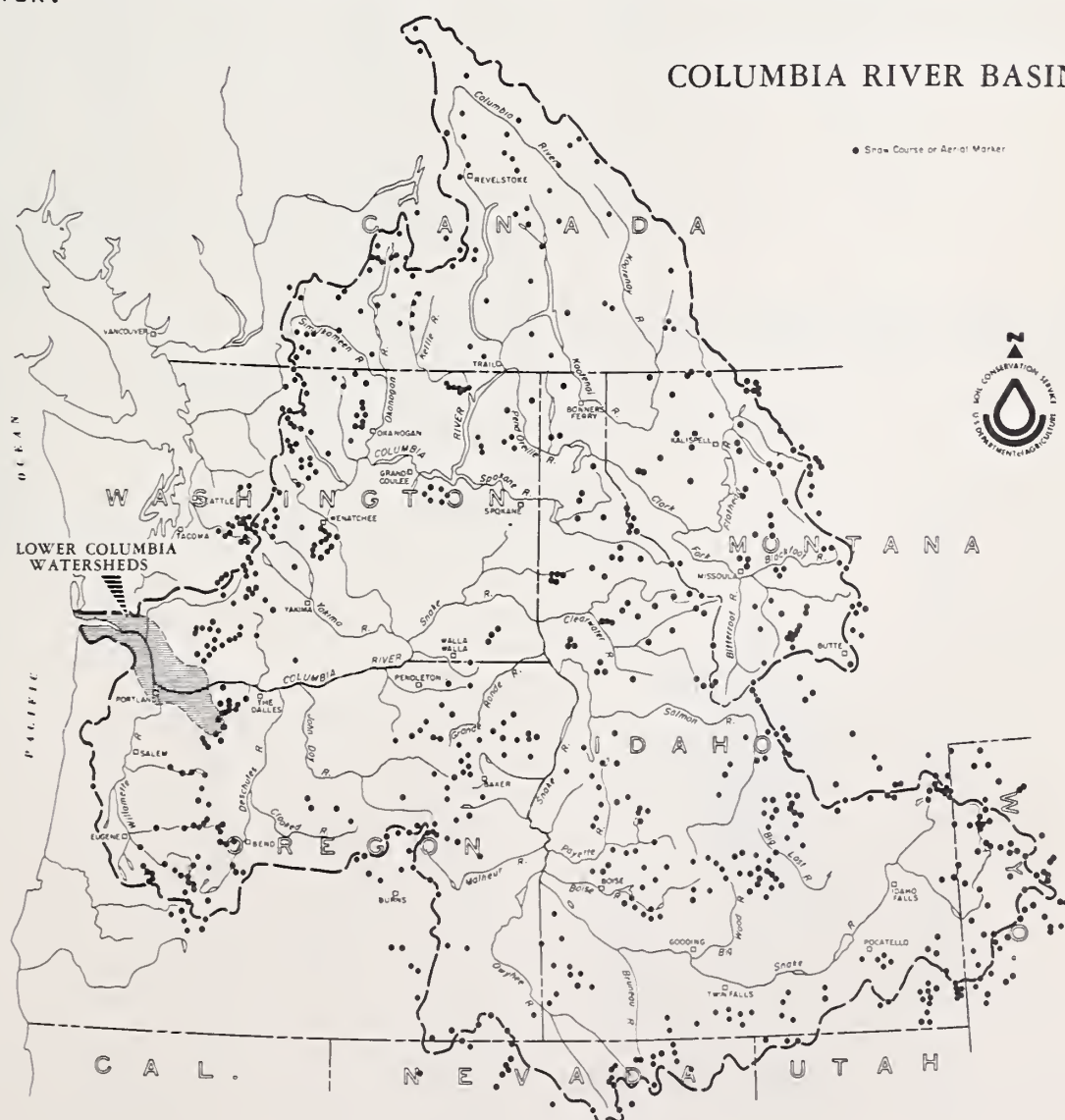
*as of*

FEBRUARY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

## GENERAL OUTLOOK

THE SNOWPACK IN THE COLUMBIA BASIN GENERALLY RANGES FROM ABOUT 130% TO OVER 250% OF NORMAL. THIS GIVES PROMISE OF ABUNDANT WATER SUPPLIES NEXT SUMMER. IN MOST AREAS THE SNOWPACK ALREADY EQUALS OR EXCEEDS THE AVERAGE FOR APRIL 1. SOIL MOISTURE CONTINUES NEAR AVERAGE OR ABOVE EXCEPT IN MONTANA AND CANADA, WHERE IT TENDS TO BE DRIER THAN USUAL. SINCE FLOW OF THE COLUMBIA AT THE DALLES IS EXPECTED TO BE A LITTLE HIGHER THAN LAST YEAR, RIVER STAGES ALONG THE LOWER COLUMBIA SHOULD BE ABOVE NORMAL DURING LATE SPRING AND EARLY SUMMER.



Report prepared by  
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## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Sandy River	2	150	230

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>i</sup>
Columbia at The Dalles <sup>d</sup>	91,900	127	April-June	88,936	72,406
	128,040	122	April-Sept	123,427	105,176
Sandy River near Marmot	473	132	April-July	<sup>b</sup>	359
	528	128	April-Sept.	<sup>b</sup>	413

## HISTORICAL DATA (Columbia River at The Dalles)

YEAR	STREAMFLOW <sup>d</sup> (1,000 A.F.)			PEAK (1,000 c.f.s.)	DATE
	APR. — SEPT.	APR. — JUNE	MAY — JUNE		
1953	100,600	64,900	55,800	609	June 17
1954	119,500	70,500	59,300	561	May 23
1955	99,500	58,300	50,300	545	June 26
1956	131,400	96,900	75,800	815	June 3
1957	105,700	80,500	67,200	700	May 22
1958	97,700	72,000	58,600	593	May 31
1959	112,500	71,900	58,900	555	June 23
1960	97,000	64,000	48,000	442	June 6
1961	101,400	74,400	64,000	699	June 8
1962	94,600	64,100	49,200	460	June 5
1963	87,000	56,300	46,200	437	June 18
1964	109,020	70,739	61,313	662	June 18
1965	114,137	80,024	62,477	520	June 9
1966	87,268	58,120	45,922	396	June 12
1967	107,771	72,903	65,112	622	June 10
1953-67 Avg.	105,181	72,408	59,689	574	

## LOWER COLUMBIA RIVER FLOOD STAGES (with 9.5' tide at Astoria)

VANCOUVER GAGE (Weather Bu.)	FLOW AT THE DALLES (1,000 c.f.s.)	DRAINAGE DISTRICT PUMPHOUSE						
		SANDY	SAUVIE ISL.	SCAPPOOSE	DEER ISL.	RAINIER	BEAVER	WOODSON
		RIVER MILES						
		118.9	96.0	91.0	77.0	62.0	52.0	47.0
35 (1894)	1210	41.2	34.2	33.3	28.5	21.9	17.5	15.5
34	1160	40.5	33.5	32.5	27.7	21.2	17.0	15.0
33	1100	39.6	32.4	31.4	26.7	20.2	16.1	14.3
32	1050	38.9	31.5	30.5	25.7	19.5	15.4	13.7
31 (1948)	1000	38.0	30.7	29.5	25.1	18.8	14.7	13.0
30	943	36.6	29.5	28.5	24.3	18.1	14.0	12.4
29	897	35.5	28.5	27.7	23.7	17.5	13.4	11.8
28	853	34.3	27.5	26.7	22.8	17.0	13.0	11.4
27 (1956)	811	33.0	26.5	25.6	21.8	16.2	12.5	11.0
26 (1950)	771	32.1	25.5	24.6	20.9	15.5	12.2	10.7
25	733	30.7	24.2	23.2	19.7	14.6	11.7	10.3
24	697	29.7	23.0	22.2	19.0	14.1	11.4	10.2
23	662	29.0	22.3	21.4	18.4	13.6	11.2	10.0
22	628	28.1	21.4	20.3	17.2	13.0	10.9	9.7
21	595	27.2	20.7	19.5	16.4	12.6	10.6	9.6
20 (1954)	564	26.2	19.8	18.6	15.5	12.1	10.2	9.4
19	534	25.5	19.2	18.0	15.0	11.8	10.0	9.3
18	501	24.4	18.3	17.2	14.3	11.4	9.8	9.1
17	479	23.4	17.4	16.4	13.7	11.0	9.6	8.9
16	452	22.4	16.5	15.5	13.0	10.5	9.3	8.7

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records.



# WATER SUPPLY OUTLOOK WILLAMETTE WATERSHEDS OREGON

*as of*  
FEBRUARY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

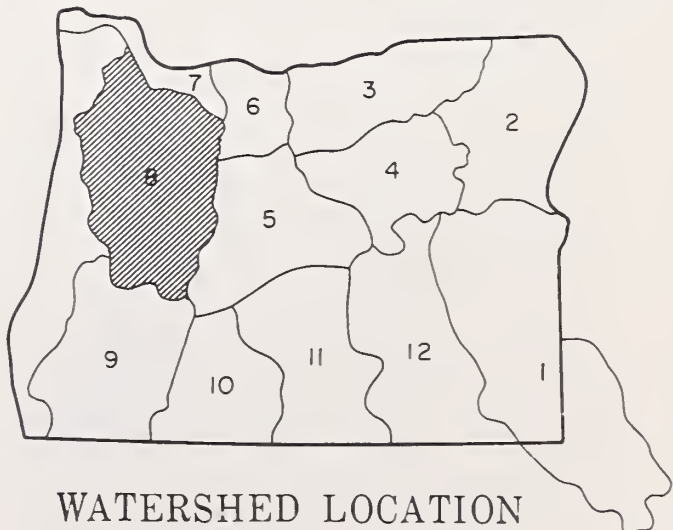
## GENERAL OUTLOOK

EXCELLENT WATER SUPPLIES ARE IN PROSPECT FOR WATER USERS ON THE WILLAMETTE WATERSHEDS DURING THE 1972 SEASON. THE MOUNTAIN SNOW-PACK IS 2 TO 2 1/2 TIMES THE AVERAGE FOR FEBRUARY FIRST WITH MANY SNOW COURSES ALREADY NEAR THE APRIL FIRST AVERAGE. PRECIPITATION WAS 149 PERCENT OF AVERAGE DURING JANUARY AND 129 PERCENT FOR THE NOVEMBER-JANUARY PERIOD. THE FLOW OF THE MIDDLE FORK OF THE WILLAMETTE WAS NEAR 2 TIMES NORMAL FOR JANUARY AND SOME FLOODING OCCURRED ON TRIBUTARIES DURING THE MONTH. POWER RESERVOIRS WERE BEING HELD AT THE USUAL LOW LEVELS.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Calapooya	Excellent	Average
Clackamas	Excellent	Excellent
McKenzie	Excellent	Excellent
Molalla	Excellent	Excellent
Santiam, North	Excellent	Excellent
Santiam, South	Excellent	Excellent
Willamette, Coast Fork	Excellent	Excellent
Willamette, Middle Fork	Excellent	Excellent





# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>i</sup>
Clackamas at Estacada	845	123	April-July	b	689
	950	119	April-Sept.	b	800
Clackamas above Three Lynx	724	140	April-July	b	517
	828	136	April-Sept.	b	610
McKenzie at McKenzie Bridge	644	138	April-July	b	465
	825	134	April-Sept.	b	614
McKenzie near Vida	1517	140	April-July	b	1087
	1796	136	April-Sept.	b	1321
McKenzie, So. Fork near Rainbow	360	163	April-July	b	221
	388	154	April-Sept.	b	252
Oak Grove Fork above Power Intake	172	137	April-July	b	125
	222	136	April-Sept.	b	163
Row near Dorena	127	120	April-July	b	106
	131	119	April-Sept.	b	110
Santiam, North at Mehama <sup>d</sup>	1002	125	April-July	b	800
	1102	123	April-Sept.	b	901
Santiam, South at Waterloo	728	122	April-July	b	596
	759	120	April-Sept.	b	633
Willamette, Mid. Fk. blw. N. Fk. nr. Oakridge	927	128	April-July	b	725
	1037	125	April-Sept.	b	828
Willamette, No. Fk. of Mid. Fk. near Oakridge	251	127	April-July	b	198
	269	123	April-Sept.	b	219
Willamette at Salem <sup>d</sup>	5858	125	April-July	b	4696
	6353	122	April-Sept.	b	5199

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>†</sup>
Blue River	85.6*	12.3	23.6	- -
Cottage Grove	30.0*	2.7	4.4	2.5
Cougar	155.2*	48.1	51.4	- -
Detroit	299.9*	70.0	92.9	41.9
Dorena	70.5*	23.8	20.1	9.6
Fall Creek	115.0*	18.9	39.2	- -
Fern Ridge	94.2*	42.4	38.7	20.8
Foster	30.0*	4.6	2.3	- -
Green Peter	270.0*	82.7	97.9	- -
Hills Creek	200.0*	83.0	64.2	22.4 <sup>m</sup>
Lookout Point	337.2*	104.5	200.9	47.1 <sup>m</sup>
Timothy Lake	61.7	55.3	54.1	45.5 <sup>m</sup>
*Multiple purpose reservoir--space reserved primarily for flood runoff.				

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Clackamas River	2	155	275
McKenzie River	3	165	270
Row River	2	135	255
Santiam River	4	120	210
Willamette, Mid. Fk.	5	135	185

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



# WATER SUPPLY OUTLOOK ROGUE, UMPQUA, WATERSHEDS OREGON

*as of*

FEBRUARY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

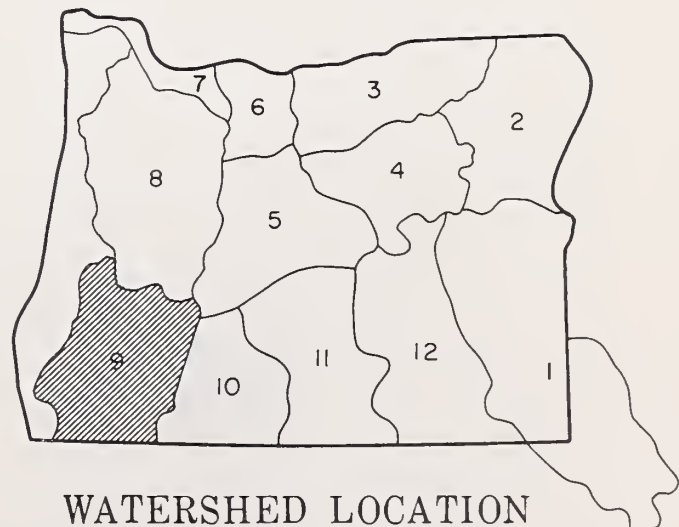
## GENERAL OUTLOOK

EXCELLENT SPRING AND SUMMER WATER SUPPLIES ARE THE PROSPECT FOR WATER USERS IN THE ROGUE AND UMPQUA BASINS. WATER SUPPLIES FROM THE ILLINOIS RIVER WILL BE AVERAGE. SNOW COVER RANGES FROM 102 PERCENT OF AVERAGE ON THE BEAR CREEK DRAINAGE TO 195 PERCENT ON THE BUTTE CREEK DRAINAGE, WITH 173 AND 166 PERCENT OF AVERAGE ON THE ROGUE AND NORTH UMPQUA DRAINAGES RESPECTIVELY. PRECIPITATION DURING JANUARY WAS 108 PERCENT OF AVERAGE AND 112 PERCENT FOR THE NOVEMBER-JANUARY PERIOD. RESERVOIR STORAGE IS NEAR AVERAGE FOR FEBRUARY FIRST. THE UMPQUA NEAR ELKTON AND THE ROGUE AT RAYGOLD FLOWED 149 AND 183 PERCENT OF AVERAGE RESPECTIVELY DURING JANUARY.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Althouse Creek	Average	Average
Applegate River, Big	Average	Average
Applegate River, Little	Average	Average
Ashland Creek	Average	Average
Butte Creek, Big	Excellent	Excellent
Butte Creek, Little	Excellent	Excellent
Cow Creek	Excellent	Average
Deer Creek	Average	Average
Elk Creek	Excellent	Average
Emigrant Creek (abv. Res.)	Average	Average
Evans Creek	Excellent	Average
Gold Hill Irrigation Dist.	Excellent	Average
Grants Pass Irrig. Dist.	Excellent	Average
Grave Creek	Excellent	Average
Illinois River, East Fork	Average	Average
Illinois River, West Fork	Average	Average
Jump-off-Joe Creek	Excellent	Average
Neil Creek	Average	Fair
Red Blanket Creek	Excellent	Average
Rogue River	Excellent	Excellent
Sucker Creek	Average	Fair
Table Rock Irrig. Dist.	Excellent	Average
Thompson Creek	Average	Fair
Wagner Creek	Average	Fair
Williams Creek	Average	Fair



WATERSHED LOCATION

Report prepared by

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# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>i</sup>
Applegate near Copper	146	105	April-Sept.	b	140
Clearwater above Trap Creek <sup>d</sup>	90	123	April-Sept.	b	73
Fourmile Lake net Inflow <sup>d</sup>	5.7	139	April-Sept.	b	4.1
Hyatt Reservoir net Inflow <sup>d</sup>	6.6	127	April-July	b	5.2
Illinois River near Kerby	199	97	April-July	b	205
	205	97	April-Sept.	b	211
Little Butte, N. Fk. at Fish Lake nr. Lake Cr. <sup>d</sup>	16.7	116	April-Sept.	b	14.4
Little Butte, S. Fk. near Lake Creek	42	130	April-Sept.	b	33
Rogue above Prospect	311	116	April-July	b	269
Rogue, South Fork near Prospect <sup>d</sup>	79	127	April-July	b	62
	91	123	April-Sept.	b	74
Rogue at Raygold near Central Point	887	114	April-July	1110	781
	1061	113	April-Sept.	1303	941
Rogue at Grants Pass	1023	109	April-Sept.	b	940
Umpqua, No. blw. Lemolo Res. nr. Toketee Falls <sup>d</sup>	196	111	April-Sept.	b	176

## FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Little Butte Creek, South Fork	100	June 7	May 27
Rogue at Raygold	1,200	Sept. 13	Aug. 7

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>†</sup>
Emigrant Lake	39.0	23.9	24.6	22.4*
Fish Lake	7.8	8.1	5.5	5.5
Fourmile Lake	16.1	11.7	7.7	9.6
Howard Prairie	60.0	53.8	50.5	32.4
Hyatt Prairie	16.1	15.4	13.2	9.8
*Average for years of record after reconstruction.				

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Applegate	3	115	145
Bear Creek	2	85	100
Butte Creek	4	155	195
Illinois River	3	90	120
North Umpqua	3	125	165
Rogue River	6	135	175

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-6 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



# WATER SUPPLY OUTLOOK KLAMATH WATERSHEDS OREGON

*as of*

FEBRUARY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

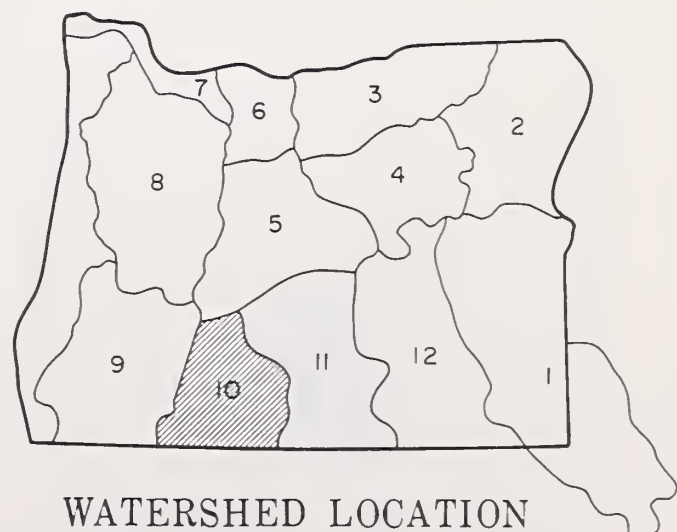
## GENERAL OUTLOOK

ABOVE AVERAGE WATER SUPPLIES ARE THE PROSPECT FOR KLAMATH BASIN WATER USERS NEXT SPRING AND SUMMER. SNOW COVER RANGES FROM 135 PERCENT OF AVERAGE ON THE SPRAGUE AND WILLIAMSON RIVERS TO 175 PERCENT ON THE LOST RIVER. RAINFALL DURING JANUARY WAS 136 PERCENT OF AVERAGE AND 115 PERCENT OF AVERAGE FOR THE NOVEMBER-JANUARY PERIOD. SOIL MOISTURE WAS SLIGHTLY ABOVE AVERAGE ON FEBRUARY FIRST. RESERVOIR STORAGE WAS MUCH ABOVE AVERAGE ON FEBRUARY FIRST. NET INFLOW INTO KLAMATH LAKE WAS 117 PERCENT OF AVERAGE DURING JANUARY.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Ft. Klamath Valley	Excellent	Average
Lost River (Clear Lake)	Excellent	Excellent
Lost River (Gerber)	Excellent	Excellent
Lost River (Willow Res.)	Excellent	Excellent
Sprague River	Average	Average
Upper Klamath Lake	Average	Average
Williamson River	Excellent	Excellent





# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>i</sup>
Clear Lake Reservoir Inflow <sup>k</sup>	129	146	Feb.-July	b	88
Gerber Reservoir Inflow <sup>k</sup>	58	135	Feb.-July	b	43
Sprague near Chiloquin	424	105	Feb.-Sept.	b	403
	316	107	April-Sept.	b	296
Upper Klamath Lake net Inflow <sup>k</sup>	1003	102	Feb.-Sept.	1243	994
	654	106	April-Sept.	832	619
Williamson below Sprague River	747	110	Feb.-Sept.	b	680
	545	115	April-Sept.	b	475

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>+</sup>
Clear Lake	440.2	302.0	327.7	206.7
Gerber	94.0	62.6	72.5	39.2
Upper Klamath Lake	584.0	406.1	397.7	360.9

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Lost River	2	185	175
Sprague River	3	150	135
Upper Klamath	7	140	155
Williamson River	3	105	135

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



# WATER SUPPLY OUTLOOK LAKE COUNTY, GOOSE LAKE WATERSHEDS OREGON

*as of*

FEBRUARY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

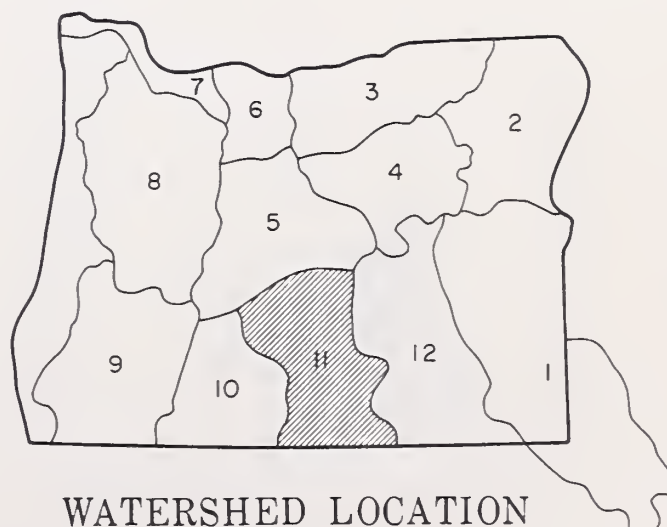
## GENERAL OUTLOOK

WATER USERS IN THE LAKE COUNTY, GOOSE LAKE AREA WILL HAVE EXCELLENT WATER SUPPLIES DURING THE 1972 SEASON. THE MOUNTAIN SNOWPACK IS 150 TO 180 PERCENT OF AVERAGE. PRECIPITATION WAS 113 PERCENT OF AVERAGE DURING JANUARY. AVAILABLE SOIL MOISTURE IS NEAR AVERAGE. DREWS RESERVOIR IS HOLDING 44,200 ACRE FEET, WHICH IS 179 PERCENT OF THE FEBRUARY FIRST AVERAGE.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Chewaucan River	Excellent	Average
Crooked Creek	Excellent	Average
Deep Creek	Excellent	Average
Dry Creek	Excellent	Average
East Side Goose Lake	Excellent	Average
Guano Lake	Excellent	Average
Honey Creek	Excellent	Average
Lakeview Water Users Assn.	Excellent	Average
Rock Creek (Hart Mountain)	Excellent	Average
Silver-Buck Creeks	Excellent	Average
Summer Lake	Excellent	Average
Thomas Creek	Excellent	Average
Twentymile Creek	Excellent	Average
Warner Lakes	Excellent	Average



# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>i</sup>
Chewaucan near Paisley	99	112	March-July	b	91
Deep above Adel	91	124	March-July	b	71
Drews Reservoir net Inflow <sup>d</sup>	59	129	March-July	b	46
Honey Creek near Plush	25	140	March-July	b	18
Silver Creek near Silver Lake	23	110	March-July	b	21
Twentymile near Adel	34	148	March-July	b	24

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>i</sup>
Chewaucan, Silver Creek, Drews Creek	1	92	100
Honey, Deep, 20-mile Crs.	1	91	102

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>i</sup>
Cottonwood	8.7	1.6	6.1	2.1*
Drews	63.0	44.2	59.4	34.0
Thompson Valley	19.5	b	15.5**	- -
* Average for years of record (in base period) after reconstruction.				
**1/25/71 reading.				

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Chewaucan River	3	150	140
Deep Creek	2	155	190
Drew Creek	3	195	175
Honey Creek	3	145	185
Silver Creek	3	130	145
Twentymile Creek	2	160	160

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



# WATER SUPPLY OUTLOOK HARNEY BASIN WATERSHEDS OREGON

*as of*

FEBRUARY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

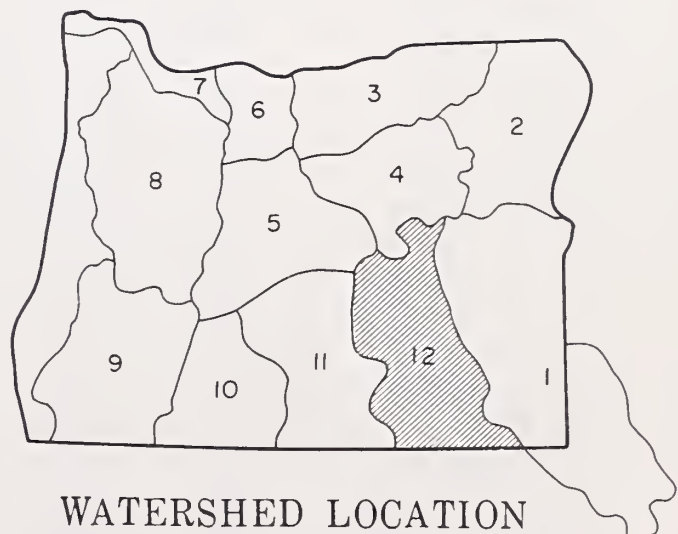
## GENERAL OUTLOOK

HARNEY BASIN WATER USERS WILL HAVE EXCELLENT WATER SUPPLIES DURING THE 1972 SEASON. THE MOUNTAIN SNOWPACK RANGES FROM 138 PERCENT OF AVERAGE ON TROUT CREEK TO 190 PERCENT ON THE DONNER UND BLITZEN DRAINAGE. AVAILABLE SOIL MOISTURE IS NEAR AVERAGE. PRECIPITATION DURING JANUARY WAS 152 PERCENT OF AVERAGE AND 136 PERCENT FOR THE NOVEMBER THROUGH JANUARY PERIOD.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Catlow Valley	Excellent	Average
Cow Creek	Excellent	Average
Donner und Blitzen River	Excellent	Average
Mill-Coffeepot Creeks	Excellent	Average
Rattlesnake Creek	Excellent	Average
Silver Creek	Excellent	Average
Silvies River	Excellent	Average
Soldier-Prather Creek	Excellent	Average
Trout Creek	Excellent	Fair
Whitehorse Creek	Excellent	Fair



WATERSHED LOCATION

# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>i</sup>
Donner und Blitzen near Frenchglen	74	129	March-July	b	57
	70	128	April-Sept.	b	55
Silver near Riley	34	189	April-July	b	17.9
Silvies River near Burns	152	150	March-July	b	101
	134	165	April-Sept.	b	83
Trout Creek near Denio	8.6	112	March-July	b	7.7

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>i</sup>
Silvies River, Silver Cr. Trout Cr., Donner und Blitzen River	3 c	89	97

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Donner und Blitzen R.	4	200	190
Silver Creek	3	140	170
Silvies River	4	130	175
Trout Creek	3	--	140

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

# BASIC DATA SUPPLEMENT 1

FEBRUARY 1, 1972

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave.†

OWYHEE, MALHEUR WATERSHED					
Antelope Ridge (Ida.)	1/26	43	13.4	5.0	3.4 <sup>h</sup>
Battle Creek <sup>e</sup> (Ida.)	2/2	22	5.9	T	2.8 <sup>m</sup>
Bear Creek <sup>e</sup> (Nev.)	1/24	64	20.4	17.6	11.3 <sup>h</sup>
Big Bend (Nev.)	1/25	44	12.7	7.8	5.3
Blue Mountain Springs	1/24	66	18.1	16.0	10.4
Blue Mtn. Springs Pillow	1/24		13.7	9.8	-
Buck Pasture <sup>e</sup>	2/2	10	2.1	0.0	1.6 <sup>m</sup>
Buckskin, Lower (Nev.)	c				
Buckskin, Upper (Nev.)	c				
Bull Basine <sup>e</sup> (Ida.)	2/2	6	1.2	0.0	0.9 <sup>m</sup>
Bully Creek <sup>e</sup>	2/2	10	2.0	2.8	2.3 <sup>m</sup>
Call Meadow <sup>e</sup>	2/2	12	2.4	6.7	2.1 <sup>m</sup>
Columbia Basine <sup>e</sup> (Nev.)	1/28	42	11.8	5.6	-
Cottonwood-Indian <sup>e</sup>	2/2	8	1.6	T	1.0 <sup>m</sup>
Crane Prairie	c				
Disaster Peak (Nev.)	c				
Eldorado Pass	1/28	18	4.2	5.3	2.5 <sup>h</sup>
Fawn Creek <sup>e</sup> (Nev.)	1/28	24	7.2	0.0	-
Fish Creek <sup>e</sup>	2/2	69	23.4	18.2	14.4 <sup>h</sup>
Fish Creek Pillow*	c				
Flag Prairie <sup>e</sup>	2/2	22	5.9	7.3	2.5 <sup>m</sup>
Fox Creek (Nev.)	c				
Fry Canyon (Nev.)	1/25	29	9.8	4.1	4.7
Gold Creek (Nev.)	1/25	29	8.3	5.0	3.6
Granite Peak (Nev.)	1/25	39	11.6	15.4	8.3 <sup>h</sup>
Hyde Pasture <sup>e</sup> (Ida.)	2/2	29	7.8	2.3	3.8 <sup>m</sup>
Jack Creek, Lower (Nev.)	c				
Jack Creek <sup>c</sup> Upper (Nev.)	1/28	28	8.4	3.3	5.1 <sup>h</sup>
Jack Peak (Nev.)	c				
Lake Creek R. S.	1/24	43	12.0	10.7	7.0 <sup>h</sup>
Laurel Draw (Nev.)	1/25	37	12.7	3.7	4.8 <sup>h</sup>
Logan Valley <sup>e</sup>	2/2	35	10.5	6.7	5.1 <sup>m</sup>
Lookout Butte <sup>e</sup>	2/2	2	0.4	0.0	0.1 <sup>m</sup>
Louse Canyon <sup>e</sup>	2/2	12	2.4	T	2.0 <sup>m</sup>
Martin Creek (Nev.)	1/25	30	9.0	7.3	5.7 <sup>h</sup>
Merritt Mountain <sup>e</sup> (Nev.)	1/28	39	11.7	2.8	-
Midas <sup>e</sup> (Nev.)	1/27	24	7.0	0.0	-
Mud Flat (Ida.)	1/26	30	8.2	5.2	3.4 <sup>h</sup>
Oregon Canyon <sup>e</sup>	2/2	22	5.9	T	3.2 <sup>m</sup>
Quinn Ridge <sup>e</sup> (Nev.)	2/2	10	2.0	0.0	1.5 <sup>m</sup>
Red Canyon <sup>e</sup> (Ida.)	2/2	31	8.4	4.0	4.2 <sup>m</sup>
Rock Spring	1/27	27	6.5	5.7	3.8
Rodeo Flat (Nev.)	1/25	26	8.8	1.3	4.2
76 Creek (Nev.)	c				
Silver City (Ida.)	1/31	62	20.7	14.1	9.2 <sup>h</sup>
Silvies <sup>e</sup>	2/2	33	9.9	3.8	-
Silvies Pillow*	c				
South Mountain #2 (Ida.)	1/27	54	17.0	11.6	7.3
Stag Mountain <sup>e</sup> (Nev.)	1/28	18	6.3	3.5	-
Stinking Water	1/31	16	4.2	0.0	2.6
Succor Creek <sup>e</sup> (Ida.)	2/2	29	7.8	2.3	4.4 <sup>m</sup>
Taylor Canyon (Nev.)	1/26	15	5.4	3.6	3.6 <sup>h</sup>
Toe Jam <sup>e</sup> (Nev.)	1/27	27	8.1	3.6	-
Tremewan Ranch (Nev.)	1/26	3	1.1	0.1	1.2 <sup>h</sup>
Triangle (Ida.)	2/2	12	2.4	0.0	0.8 <sup>m</sup>
Trout Creek <sup>e</sup>	2/2	18	4.8	T	3.7 <sup>m</sup>
"V" Lake <sup>e</sup>	2/2	33	9.9	1.6	2.5 <sup>m</sup>
Vaught Ranch <sup>e</sup> (Ida.)	2/2	22	5.9	T	-
War Eagle <sup>e</sup> (Ida.)	2/2	61	20.7	17.8	-

\*Manometer reading.

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave.†

BURNT, POWDER, PINE, GRANDE RONDE IMNAHA WATERSHEDS					
Aneroid Lake #1	2/1	92	31.0	35.6	24.0
Aneroid Lake #2	2/1	80	27.8	32.8	21.6
Anthony Lake	1/27	83	28.6	20.0	16.4
Bald Mountain <sup>e</sup> (Ore.)	1/27	80	27.2	17.3	16.7 <sup>m</sup>
Beaver Reservoir	1/26	51	15.2	8.2	6.7
Beaver Reservoir (Alt.)	1/26	56	18.0	10.8	-
Big Sheep <sup>e</sup>	1/27	84	28.6	26.6	18.0 <sup>m</sup>
Blue Mtn. Summit	1/27	34	11.2	8.6	5.6
Bourne	1/24	59	17.2	16.5	10.3
County Line	1/31	29	8.6	2.8	4.1
Dooley Mountain	1/26	39	11.3	11.3	5.4
Eilertson Meadows	1/25	41	13.9	13.1	7.6
Eldorado Pass	1/28	18	4.2	5.3	2.5 <sup>h</sup>
Gold Center	1/24	45	14.2	14.7	8.2
Goodrich Lake	1/29	128	49.9	39.9	23.7 <sup>h</sup>
Intake House	1/25	42	13.2	11.8	-
Little Alps	1/27	62	18.7	13.2	7.9 <sup>h</sup>
Little Antone	1/27	34	10.3	7.5	-
Lucky Strike	1/27	59	18.6	9.9	8.0 <sup>h</sup>
Lucky Strike Pillow*	1/27		21.2	-	-
Meacham	1/26	52	16.1	5.7	6.6
Mirror Lake <sup>e</sup>	b			57.4	44.7 <sup>m</sup>
Moss Spring	1/29	79	26.2	22.0	14.7
Power Plant	1/25	27	8.3	6.7	-
Schneider Meadows	1/28	91	27.3	34.2	19.4
Schoolmarm	1/31	26	7.2	2.2	3.6
Standley <sup>e</sup>	1/27	81	27.5	20.9	17.2 <sup>m</sup>
Taylor Green	1/29	61	21.0	18.4	-
Tipton	1/27	40	13.2	11.0	6.9
Tipton Snow Pillow	1/27	46	14.3	12.3	-
Tollgate	1/27	82	32.3	21.5	15.9
TV Ridge <sup>e</sup>	1/27	51	17.3	13.3	-

\*Manometer reading.

## UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS

Arbuckle Mountain	1/31	49	17.1	8.2	7.2
Arbuckle Mtn. Pillow*	1/31		27.8	-	-
Battle Mountain Summit	1/25	23	6.4	1.4	1.8 <sup>m</sup>
Blue Mountain Camp	1/27	55	23.6	13.6	10.6 <sup>h</sup>
Emigrant Springs	1/26	39	11.4	1.6	4.0
High Ridge Pillow*	1/25		36.0	26.6	-
Lucky Strike	1/27	59	18.6	9.9	8.0 <sup>h</sup>
Lucky Strike Pillow*	1/27		21.2	-	-
Meacham	1/26	52	16.1	5.7	6.6
Tollgate	1/27	82	32.3	21.5	15.9
Weston Mountain	1/27	2	0.4	0.0	1.0 <sup>m</sup>

\*Manometer reading.



# BASIC DATA SUPPLEMENT 1

FEBRUARY 1, 1972

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave. 2

UPPER JOHN DAY WATERSHEDS					
Anthony Lake	1/27	83	28.6	20.0	16.4
Arbuckle Mountain	1/31	49	17.1	8.2	7.2
Arbuckle Mtn. Snow Pillow*	1/31		27.8	-	-
Battle Mountain Summit	1/25	23	6.4	1.4	1.8 <sup>m</sup>
Beech Creek Summit	1/28	28	8.0	5.0	3.7 <sup>h</sup>
Blue Mountain Springs	1/24	66	18.1	16.0	10.4
Blue Mtn. Springs Pillow	1/24		13.7	9.8	-
Blue Mountain Summit	1/27	34	11.2	8.6	5.6
Derr	1/27	44	10.7	7.2	6.6
East Fork Canyon <sup>e</sup>	<sup>b</sup>		-	-	-
Gold Center	1/24	45	14.2	14.7	8.2
Indian Creek Butte <sup>e</sup>	2/2	84	25.0	22.1	-
Izee Summit	1/27	33	8.8	6.0	5.7 <sup>h</sup>
Lucky Strike	1/27	59	18.6	9.9	8.0 <sup>h</sup>
Lucky Strike Pillow*	1/27		21.2	-	-
Marks Creek	1/31	25	6.9	2.7	3.1
Ochoco Meadows	1/28	44	12.6	6.3	6.6
Olive Lake <sup>e</sup>	1/27	66	20.4	15.2	12.2
Schoolmarm	1/31	26	7.2	2.2	3.6
Snow Mountain	1/28	57	16.2	10.6	8.6 <sup>h</sup>
Snow Mtn. Pillow*	1/28		15.2	6.0	-
Starr Ridge	1/27	30	8.2	4.8	4.1 <sup>h</sup>
Tipton	1/27	40	13.2	11.0	6.9
Tipton Snow Pillow	1/27	46	14.3	12.3	-
Williams Ranch	1/28	14	4.3	T	0.9 <sup>m</sup>

\*Manometer Reading.

### UPPER DESCHUTES WATERSHEDS

Black Pine Spring	DISCONTINUED				
Caldwell Ranch	1/31	35	9.9	9.4	8.4 <sup>h</sup>
Cascade Summit	1/28	100	33.9	25.6	19.1
Chemult	1/31	34	11.0	10.9	8.4
Deer Creek	DISCONTINUED				
Derr	1/27	44	10.7	7.2	6.6
Hogg Pass	1/31	133	51.1	39.8	25.6
Hungry Flat	1/31	29	8.5	8.1	5.1
Irish-Taylor	1/26	131	45.9	33.6	23.3
Irish-Taylor Pillow	1/31		44.5	34.0	-
Marks Creek	1/31	25	6.9	2.7	3.1
Mowich	DISCONTINUED				
New Crescent Lake	1/24	48	14.2	13.2	10.5
New Dutchman Flat #2	1/31	156	63.3	45.6	31.8
Ochoco Meadows	1/28	44	12.6	6.3	6.6
Snow Mountain	1/28	57	16.2	10.6	8.6 <sup>h</sup>
Snow Mtn. Pillow	1/28	55	15.2	6.0	-
Tamarack	1/28	27	6.6	4.4	4.3 <sup>h</sup>
Tangent	1/31	74	26.9	22.7	15.4
Three Creek Butte	2/1	47	14.3	10.1	8.0 <sup>h</sup>
Three Creek Meadow	2/1	62	21.7	17.5	12.3
Three Creek Mdw. Pillow	2/1	69	24.0	-	-
Waldo Lake	1/31	102	37.4	26.1	19.7
Willamette Pass	1/25	129	43.8	38.2	26.2
Willamette Pass Pillow	<sup>b</sup>			38.9	-

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave. 2

HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS					
Brooks Meadow	<sup>c</sup>				
Clear Lake	1/21	43	15.6	12.6	5.9
Clear Lake (Experimental)	1/21	60	21.2	15.2	9.8 <sup>h</sup>
Cooper Spur	DISCONTINUED				
Cooper Spur (Alt.)	1/31	42	13.5	11.2	8.0 <sup>h</sup>
Greenpoint	1/28	58	20.0	18.1	9.7
Knebal Springs	<sup>c</sup>				
Parkdale	1/31	2	0.2	0.0	0.8 <sup>m</sup>
Phlox Point	2/1	197	82.4	52.6	35.8
Red Hill	2/3	134	59.0	44.8	23.1
Still Creek	1/21	79	32.3	23.8	13.8
Still Creek (Alt. #2)	1/21	77	30.9	24.9	-
Switchback	1/31	40	16.2	14.8	9.9 <sup>m</sup>
Tilly Jane	1/23	131	48.1	37.9	24.0
Ulrich Ranch Junction	<sup>c</sup>				
Umbrella Falls	2/1	212	98.8	68.5	-
Upper Valley	1/31	11	2.5	1.6	2.5 <sup>m</sup>

### WILLAMETTE WATERSHEDS

Cascade Summit	1/28	100	33.9	25.6	19.1
Champion	2/1	99	40.9	31.4	16.4
Clackamas Lake	<sup>c</sup>				
Clear Lake	1/21	43	15.6	12.6	5.9
Clear Lake (Experimental)	1/21	60	21.2	15.2	9.8 <sup>h</sup>
Dead Horse Grade	1/30	73	43.7	13.5	10.7
Detroit (Town)	1/31	3	0.5	1.8	1.4
Detroit Dam	1/31	3	0.5	0.0	0.3
Golden Curry Creek	2/1	32	9.8	6.0	3.7
Hogg Pass	1/31	133	51.1	39.8	25.6
Lake Harriet	2/2	12	3.6 <sup>g</sup>	4.5	2.1 <sup>m</sup>
Laurel Mountain	1/28	60	24.8	0.0	-
Layng Creek	2/1	0	0.0	0.0	T
Lookout Point Dam*	1/28	2	0.2 <sup>g</sup>	0.0	0.0
Lost Creek Ranch	1/30	27	9.3	6.8	2.8
Lund Park	2/1	3	0.4 <sup>g</sup>	0.0	0.4
Marion Forks	1/31	48	15.5	17.3	8.2 <sup>h</sup>
Marys Peak	1/28	71	26.7	19.9	4.0 <sup>m</sup>
Marys Peak (Alt.)	1/28	59	26.1	17.4	-
McCredie Springs	1/28	8	2.1	0.0	0.2
McKenzie	1/30	147	58.5	44.0	27.6
McKenzie Bridge	1/30	0	0.0	0.0	0.3
Mill City	1/31	T	T	0.0	T
Oakridge	1/28	T	T	0.0	T
Peavine Ridge	<sup>b</sup>			17.1	10.7 <sup>h</sup>
Peavine Ridge Pillow	1/25		30.1	18.1	-
Phlox Point	2/1	197	82.4	52.6	35.8
Railroad Overpass	1/28	17	5.2	T	2.1
Saddle Mountain	1/31	73	28.6	24.2	-
Salt Creek Falls	1/28	62	20.7	16.0	10.0
Santiam Junction	1/31	93	33.6	23.9	15.0
Seine Creek	1/27	31	8.4	8.0	-
Still Creek	1/21	79	32.3	23.8	13.8
Still Creek Alternate #2	1/21	77	30.9	24.9	-
Timothy Lake	2/2	62	20.5	18.5	6.5 <sup>m</sup>
Valsetz Summit	1/28	28	8.0	0.0	-
Vida	1/30	0	0.0	0.0	T
Waldo Lake	1/31	102	37.4	26.1	19.7
Weaver Creek	2/1	8	1.8	0.0	1.0
White Branch Slide	1/31	40	11.6	11.0	4.0
Whitewater Bridge	1/31	31	9.3	10.7	3.7
Willamette Pass	1/25	129	43.8	38.2	26.2
Willamette Pass Pillow	<sup>b</sup>			38.9	-

\*Known as Meridian Dam

# BASIC DATA SUPPLEMENT 1

FEBRUARY 1, 1972

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont (In.)	Water Content (inches)	
				Last Yr.	Ave. i
ROGUE, UMPQUA WATERSHEDS					
Althouse	1/31	19	6.0	9.0	5.0
Althouse #2	1/31	25	8.4	10.6	- -
Annie Spring	1/31	109	38.3	39.3	27.8
Beaver Dam Creek	1/28	48	15.7	12.2	8.1
Big Red Mountain	1/26	84	25.6	25.7	19.8
Billie Creek Divide	1/28	89	31.3	16.1	14.2
Caliban	1/27	110	33.5	29.5	- -
Champion	2/1	99	40.9	31.4	16.4
Cold Springs Camp	1/31	112	39.7	31.7	21.9
Cold Springs Camp Pillow	2/1		29.1	23.2	- -
Deadwood Junction	1/28	36	10.4	8.6	6.3
Diamond-Crater Summit	1/28	112	39.2	30.2	22.7
Diamond-Crater Sum. Alt.	1/28	104	34.8	27.1	- -
Diamond Lake	1/28	66	21.6	18.9	14.6
Fish Lake	1/28	48	16.8	12.3	9.8
Fourmile Lake	c				
Grayback Peak	1/24	67	23.7	23.1	18.6
Howard Prairie	1/28	31	9.4	8.9	6.4
Hyatt Prairie	1/28	36	10.4	8.0	5.9
King Mountain #1	1/26	33	8.5	16.6	- -
King Mountain #2	1/26	21	4.5	9.2	- -
King Mountain #3	1/26	8	0.5	0.0	- -
King Mountain #4	1/26	4	0.5	0.0	- -
King Mountain #5	1/26	3	0.3	0.0	- -
King Mountain #6	1/26	T	T	0.0	- -
Little Red Mountain	1/27	82	27.4	18.2	15.2
Mt. Ashland Switchback	1/27	105	31.2	32.7	- -
Mule Creek	1/27	49	14.3	12.6	- -
North Umpqua	1/28	54	18.2	13.3	10.4
Page Mountain	1/31	12	2.7	3.1	3.9
Park Headquarters	1/31	163	58.1	50.3	36.5
Red Butte #1	1/25	62	21.0	13.8	9.9
Red Butte #2	1/25	28	9.8	8.7	6.7
Red Butte #3	1/25	22	6.2	4.9	4.1
Red Butte #4	1/25	10	1.8	0.0	2.9
Red Butte #5	1/25	7	0.5	0.0	0.6
Red Butte #6	1/25	T	T	0.0	0.0
Seven Lakes #2	1/20	124	45.2	30.0	25.8
Seven Mile	1/20	74	28.4	25.0	- -
Silver Burn	1/27	49	16.0	12.5	9.8
Siskiyou Summit	1/31	22	6.3	11.4	6.6
Siskiyou Summit Alt. #2	1/31	21	6.0	11.7	- -
Ski Bowl Road	1/27	85	25.9	25.3	- -
South Fork Canal	1/27	16	4.5	6.3	2.8
Trap Creek	1/28	44	16.0	12.0	8.6
Whaleback	1/31	92	33.5	27.4	21.7

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave. i
KLAMATH WATERSHEDS					
Annie Spring	1/31	109	38.3	39.3	27.8
Beatty (PP&L)				0.0	0.6 <sup>m</sup>
Billie Creek Divide	1/28	89	31.3	16.1	14.2 <sup>h</sup>
Bly Mountain	DISCONTINUED				
Bly 101 Ranch (PP&L)	b			0.0	1.7
Chemult	1/31	34	11.0	10.9	8.4
Chiloquin (PP&L)	b			0.0	1.7
Cold Springs Camp	1/31	112	39.7	31.7	21.9 <sup>h</sup>
Cold Springs Camp Pillow	2/1		29.1	23.2	- -
Crazyman Flat <sup>e</sup>	1/28	48	12.0	6.0	6.5 <sup>m</sup>
Crowder Flat <sup>e</sup> (Calif.)	1/28	13	3.3	2.9	3.0 <sup>m</sup>
Crystal (PP&L)	1/29	22	6.5	8.7	7.1
Diamond-Crater Summit	1/28	112	39.2	30.2	22.7 <sup>h</sup>
Diamond-Crater Sum. Alt.	1/28	104	34.8	27.1	- -
Diamond Lake Jct. (97)	1/28	22	5.8	8.2	4.7 <sup>h</sup>
Dog Hollow <sup>e</sup>	1/28	6	1.2	0.0	1.2 <sup>m</sup>
Finley Corrals <sup>e</sup>	1/28	82	20.5	11.1	10.4 <sup>m</sup>
Fort Klamath (PP&L)	1/30	8	2.4	3.4	3.8
Fourmile Lake	c				
Gerber	2/1	11	3.5	0.0	2.3
Harriman (PP&L)	1/31	26	7.7	5.0	3.6
Hyatt Prairie Reservoir	1/28	36	10.4	8.0	5.9 <sup>h</sup>
Kirk (PP&L)	b			7.8	5.8 <sup>m</sup>
Lake of the Woods	1/27	42	13.3	8.0	8.4 <sup>h</sup>
Park Headquarters	1/31	163	58.1	50.3	36.5
Pelican Guard Station	DISCONTINUED			3.0	3.0 <sup>h</sup>
Quartz Mountain	1/27	32	8.0	4.5	5.4
Quartz Mountain (Ext.)	1/27	32	7.5	5.1	- -
Seven Lakes #2	1/20	124	45.2	30.0	25.8 <sup>h</sup>
Seven Mile	1/20	74	28.4	25.0	- -
State Line <sup>e</sup> (Calif.)	1/28	42	10.5	5.8	6.5 <sup>m</sup>
Strawberry	1/31	41	11.6	5.1	5.4 <sup>h</sup>
Summer Rim <sup>e</sup>	1/28	59	14.8	8.9	9.8 <sup>m</sup>
Summer Rim Snow Pillow	c				
Sun Mountain	DISCONTINUED				
Sycan Flat <sup>e</sup>	1/28	45	11.3	5.6	5.7 <sup>m</sup>
Taylor Butte	1/24	17	5.2	5.5	4.5 <sup>h</sup>
LAKE COUNTY, GOOSE LAKE WATERSHEDS					
Adin Mountain (Calif.)	1/31	42	14.6	10.8	7.5
Bald Mountain (Nev.)	c				
Bear Flat Meadow <sup>e</sup>	1/28	42	10.5	7.8	5.8 <sup>m</sup>
Camas Creek	2/1	44	13.8	8.8	7.3
Cedar Pass (Calif.)	2/3	57	18.4	12.5	9.5
Colvin Creek <sup>e</sup>	1/24	24	6.0	1.3	- -
Cox Flat <sup>e</sup>	1/28	36	9.0	5.4	5.3 <sup>m</sup>
Crowder Flat <sup>e</sup> (Calif.)	1/28	13	3.3	2.9	3.0 <sup>m</sup>
Dismal Swamp <sup>e</sup> (Calif.)	1/24	51	12.7	12.0	9.1 <sup>m</sup>
Finley Corrals <sup>e</sup>	1/28	82	20.5	11.1	10.4 <sup>m</sup>
Hart Mountain <sup>e</sup>	1/24	6	1.2	0.0	1.0 <sup>m</sup>
Little Bally Mtn. <sup>e</sup> (Nev.)	1/24	12	3.0	0.0	1.9 <sup>m</sup>
Mt. Bidwell (Calif.)	c				
North Star (Calif.)	c				
Patton Meadows <sup>e</sup>	1/28	72	18.0	10.8	10.8 <sup>m</sup>
Quartz Mountain	1/27	32	8.0	4.5	5.4
Quartz Mountain (Ext.)	1/27	32	7.5	5.1	- -
Sherman Valley <sup>e</sup>	1/24	50	12.5	8.9	6.9 <sup>m</sup>
Silver Creek	1/28	13	2.8	3.6	2.9
State Line <sup>e</sup> (Calif.)	1/28	42	10.5	5.8	6.5 <sup>m</sup>
Strawberry	1/31	41	11.6	5.1	5.4 <sup>h</sup>
Summer Rim <sup>e</sup>	1/28	59	14.8	8.9	9.8 <sup>m</sup>
Summer Rim Snow Pillow	c				
Sycan Flat <sup>e</sup>	1/28	45	11.3	5.6	5.7 <sup>m</sup>
Willow Creek <sup>e</sup>	1/24	25	6.3	0.0	2.9 <sup>m</sup>



# BASIC DATA SUPPLEMENT 1

FEBRUARY 1, 1972

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave. i

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave. i

### HARNEY BASIN WATERSHEDS

Blue Mountain Springs	1/24	66	18.1	16.0	10.4
Blue Mtn. Springs Pillow	1/24		13.7	9.8	- -
Buck Pasture <sup>e</sup>	2/2	10	2.1	0.0	1.6 <sup>m</sup>
Buckskin Lake <sup>e</sup>	2/2	8	1.6	0.0	0.8 <sup>m</sup>
Call Meadows <sup>e</sup>	2/2	12	2.4	6.7	2.1 <sup>m</sup>
Delintment Lake	1/28	35	8.7	5.3	5.1 <sup>h</sup>
Denio Creek <sup>e</sup>	2/2	3	0.6	0.0	0.6 <sup>m</sup>
Disaster Peak (Nev.)	<sup>c</sup>				
Emigrant Butte	1/27	20	5.4	5.3	2.8 <sup>h</sup>
Fish Creek <sup>e</sup>	2/2	69	23.4	18.2	14.4 <sup>h</sup>
Fish Creek Pillow*	<sup>c</sup>				
Hart Mountain	1/24	6	1.2	0.0	1.0 <sup>m</sup>
Idlewild Camp	1/26	30	9.1	5.0	3.8
Idlewild Camp Alternate	1/26	26	11.9	- -	- -
Izee Summit	1/27	33	8.8	6.0	5.7 <sup>h</sup>
Lake Creek R.S.	1/24	43	12.0	10.7	7.0 <sup>h</sup>
Oregon Canyon <sup>e</sup>	2/2	22	5.9	T	3.2 <sup>m</sup>
Rock Spring	1/27	27	6.5	5.7	3.8
Silvies <sup>e</sup>	2/2	33	9.9	3.8	- -
Silvies Pillow*	<sup>c</sup>				
Snow Mountain	1/28	57	16.2	10.6	8.6 <sup>h</sup>
Snow Mountain Pillow	1/28	55	15.2	6.0	- -
Starr Ridge	1/27	30	8.2	4.8	4.1 <sup>h</sup>
Stinking Water	1/31	16	4.2	0.0	2.6 <sup>h</sup>
Trout Creek <sup>e</sup>	2/2	18	4.8	T	3.7 <sup>m</sup>
"V" Lake <sup>e</sup>	2/2	33	9.9	1.6	2.5 <sup>m</sup>

\*Manometer reading.

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



# BASIC DATA SUPPLEMENT 2

FEBRUARY 1, 1972

## SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average
OWYHEE, MALHEUR WATERSHEDS							
Bear Creek (Nev.)	7800	72	16.8	c			
Big Bend (Nev.)	6700	48	16.7	1/25	12.3	15.2	15.6
Blue Mountain Spring	5900	42	16.9	1/24	6.1	12.3	9.2
Crane Prairie	5375	48	18.2	c			
Folly Farm	4450	30	12.5	c			
Jack Creek, Lower (Nev.)	6800	48	8.6	c			
Jordan Valley	4390	48	19.3	1/27	16.2	16.6	- -
Mud Flat (Ida.)	5500	48	12.8	1/26	13.8	14.4	9.9
Rodeo Flat (Nev.)	6800	42	11.0	1/25	6.4	7.5	10.7
Taylor Canyon (Nev.)	6200	48	15.1	1/26	10.0	12.5	13.4
Triangle (Ida.)	5150	48	16.6	c			
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS							
Blue Mountain Summit	5100	36	16.8	1/27	10.6	12.5	9.9
Dooley Mountain	5430	36	9.2	1/26	2.9	4.4	3.4
Emigrant Springs	3925	48	22.3	1/26	20.5	21.1	18.3
Ladd Summit	3730	48	18.9	1/27	10.5	12.3	9.9
Moss Springs	5850	36	25.8	b		15.9	- -
Tollgate	5070	48	23.6	1/27	15.4	16.8	19.7
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	1/25	12.8	13.7	12.3
Emigrant Springs	3925	48	22.3	1/26	20.5	21.1	18.3
Tollgate	5070	48	23.6	1/27	15.4	16.8	19.7
UPPER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	1/25	12.8	13.7	12.3
Beech Creek	4800	48	21.3	1/28	9.5	15.5	12.5
Blue Mountain Spring	5900	42	16.9	1/24	6.1	12.3	9.2
Blue Mountain Summit	5100	36	16.8	1/27	10.6	12.5	9.9
Derr	5670	24	9.0	1/27	7.5	8.1	- -
Marks Creek	4540	36	14.1	1/31	11.1	13.3	10.1
Snow Mountain	6300	48	16.7	1/28	12.9	14.0	13.8
Starr Ridge	5150	36	10.6	1/28	10.3	10.6	9.1
Williams Ranch	4500	42	17.9	1/28	17.9	17.8	17.2
UPPER DESCHUTES, CROOKED WATERSHEDS							
Derr	5670	24	9.0	1/27	7.5	8.1	- -
Marks Creek	4540	36	14.1	1/31	11.1	13.3	10.1
Snow Mountain	6300	48	16.7	1/28	12.9	14.0	13.8
HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS							
Cooper Spur	3490	72	26.4	1/31	14.2	14.2	- -
KLAMATH WATERSHEDS							
Bly Mountain	5090	42	14.0	DISCONTINUED			

FEBRUARY 1, 1972

FEBRUARY 1, 1972

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average
LAKE COUNTY, GOOSE LAKE WATERSHEDS							
Camas Creek	5720	42	14.5	1/27	12.0	13.2	11.7
Quartz Mountain	5230	48	15.3	1/27	8.2	8.9	8.3
HARNEY BASIN WATERSHEDS							
Blue Mountain Spring	5900	42	16.9	1/24	6.1	12.3	9.2
Fish Creek	7900	48	15.0	c			
Folly Farm	4450	30	12.5	c			
Silvies	6900	48	16.4	c			
Snow Mountain	6300	48	16.7	1/28	12.9	14.0	13.8
Starr Ridge	5150	36	10.6	1/28	10.3	10.6	9.1
Willow-Bald	5000	24	6.6	1/29	4.5	6.6	5.6

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

# BASIC DATA SUPPLEMENT 3

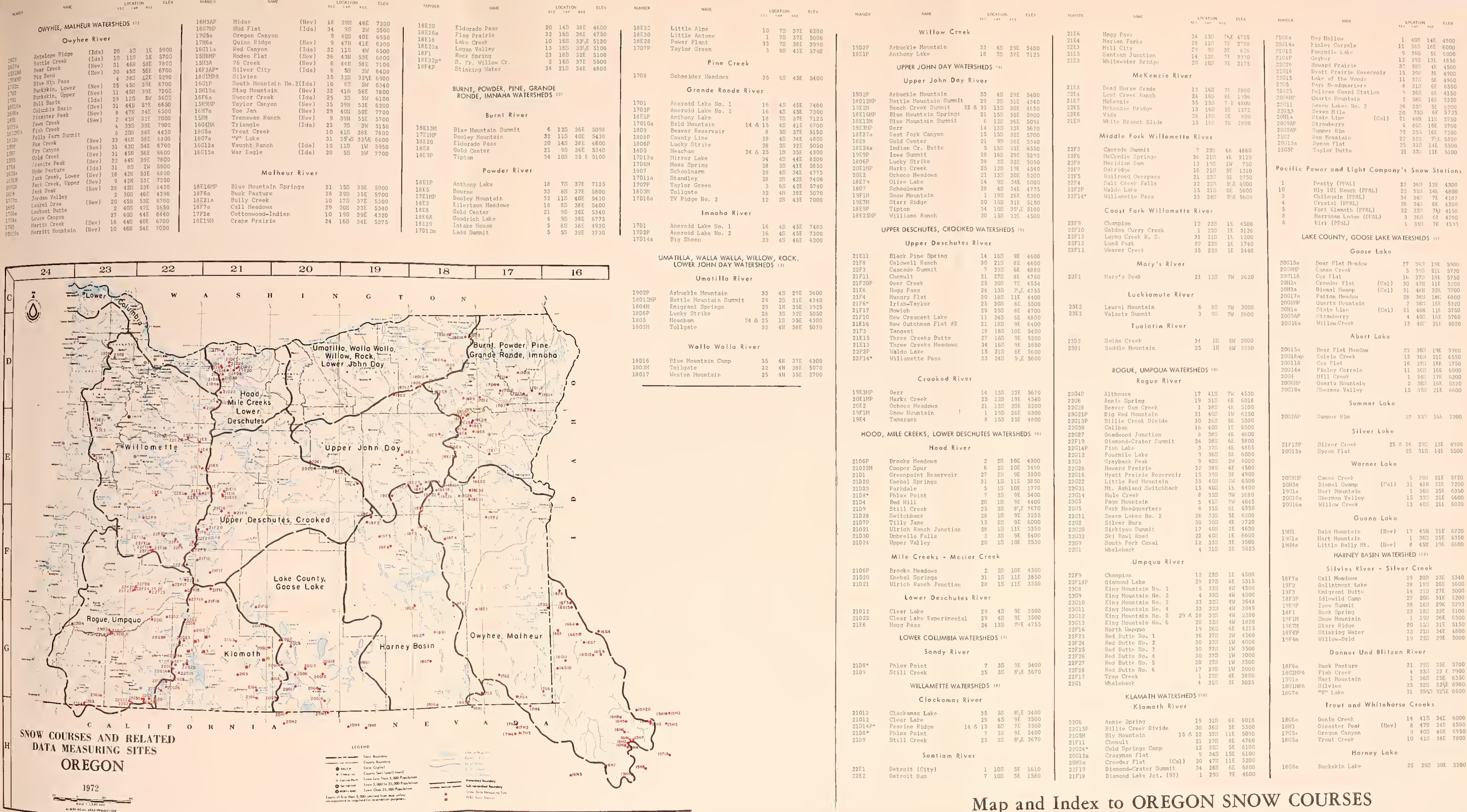
FEBRUARY 1, 1972

## PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION		PAST RECORD	
		Date of Reading	Precipitation	Last Year	Average †
Althouse (Josephine County)	4530	10/21/71 to 1/31	27.56	--	
Camas Creek (Lake County)	5825	12/30 to 1/27	5.35	3.05	
County Line (Umatilla County)	4800	12/30 to 1/31	1.90	4.00	
Fish Lake (Jackson County)	4865	12/28 to 1/28	1.12	.27	
Quartz Mtn. Summit (Lake County)	5300	11/29 to 1/29	8.07	2.74	
Strawberry (Lake County)	5760	10/7 to 1/31	17.80	15.85	
Tipton (Baker County)	5100	12/29 to 1/27	2.50	--	







Map and Index to OREGON SNOW COURSES





# The Following Organizations Cooperate in the Oregon Snow Survey Work

## STATE

- Idaho Cooperative Snow Surveys
- Nevada Cooperative Snow Surveys
- Oregon State University
- Oregon State Engineer and Corps of State Watermasters
- Oregon State Highway Engineers
- Soil and Water Conservation Districts of Oregon

## COUNTY

- Douglas County Water Resources Survey

## FEDERAL

- Department of Agriculture
  - Cooperative Extension Service
  - Forest Service
  - Soil Conservation Service
- Department of Commerce
  - NOAA, National Weather Service
- Department of the Interior
  - Bonneville Power Administration
  - Bureau of Land Management
  - Bureau of Reclamation
  - Fish and Wildlife Service
  - Geological Survey
  - National Park Service
- Department of National Defense
  - Corps of Army Engineers

## PUBLIC UTILITIES

- Pacific Power and Light Company
- Portland General Electric Company
- California-Pacific Utilities Company

## MUNICIPALITIES

- City of Baker
- City of La Grande
- City of The Dalles
- City of Walla Walla

## IRRIGATION DISTRICTS

- Arnold Irrigation District
- Associated Ditch Companies
- Burnt River Irrigation District
- Central Oregon Irrigation District
- East Fork Irrigation District
- Grants Pass Irrigation District
- Hood River Irrigation District
- Jordan Valley Irrigation District
- Juniper Flat Irrigation District
- Lakeview Water Users, Incorporated
- Medford Irrigation District
- Middle Fork Irrigation District
- North Board of Control - Owyhee Project
- North Unit Irrigation District
- Ochoco Irrigation District
- Rogue River Valley Irrigation District
- South Board of Control - Owyhee Project
- Squaw Creek Irrigation District
- Talent Irrigation District
- Tumalo Project
- Vale-Oregon Irrigation District
- Warm Springs Irrigation District

## PRIVATE ORGANIZATIONS

- The Crag Rats, Hood River, Oregon

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